

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Algebra I Ch. 7 Test

Simplify:

1.  $bc^0$

2.  $\frac{1}{2}x^{-2}y^4$

3.  $3g^{-5}$

4.  $(rh^3)^2(r^3h)^5$

5.  $(t^4)(t)$

6.  $-(x^2y)^4$

7.  $\frac{m^7l^3}{l^2}$

8.  $\frac{32s^4y^{-2}}{8s^2y}$

9.  $\left(\frac{1}{5}b\right)^{-3}$

10.  $(cv)(cv)^3$

Simplify.

11.  $3t + 5 - 7t - 2$

12.  $(3m - 7) - (5m - 2)$

13.  $(4x^2 - 6x + 8) - (-3x^3 - 8x^2 + 2x - 6)$

14.  $(12 + 6p) - (-p - p^2 + 4)$

Simplify.

15.  $(2r)(4r)$

16.  $2x(3x^2 - 4x + 5)$

17.  $-3ab(ab - 5ab^2 + 2a^3)$

18.  $(x + 5)(x - 4)$

19.  $(c + 6)(c - 10)$

20.  $(3x + 8)(3x - 8)$

21.  $(2z + 3)^2$

22.  $(3y - 4)^2$

23.  $(4x^2 + x - 7)(2x - 1)$

24.  $(4a + b^2)^2$

Challenge

$(3x^2 + x - 8)^2(2x^5)^2(x + 2)$